## What Is Claimed Is:

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- 1. A method for valuating natural gas futures and options contracts using weather-based metrics, comprising the steps of:
- (1) receiving an input from a user indicative of the number of monthly gas contracts desired for a period of time;
- (2) receiving historical weather information for at least one basket of cities during said period of time;
- (3) receiving future weather information for said basket of cities during said period of time;
- (4) receiving historical natural gas inventory information for said basket of cities during said period of time;
- (5) receiving historical gas futures contract price information for said period of time;
- (6) applying a series of regression analyses to obtain a predicted baseline value for each of the monthly gas contracts within said period using said received historical weather, future weather, historical natural gas inventory, and historical gas futures contract price data;
- (7) receiving live exchange data which indicates the current price for each of the monthly gas contracts within said period of time;
- (8) applying a series of recommendation rules to said baseline value, using said received live exchange data; and
- (9) providing said user with a recommendation for each of the monthly gas contracts within said period of time, wherein said recommendation reflects said user inputted desired number of contracts.

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1	2. The method of claim 1, wherein said series of regression analysis applied
2	in step (6), comprises the steps of:
3	(a) performing a linear regression of said historical weather
4	information and said historical natural gas inventory information; and
5	(b) performing a multi-variate regression of said historical gas futures
6	contract price information, said historical weather information and said historical
7	natural gas inventory information.
1	3. The method of claim 1, wherein said series of recommendations provided
2	in step (9) includes at least one of the following:
<b>[</b> ]3	(i) Strong Buy;
<u>1</u> 4	(ii) Buy;
13 10 14 15 14 16 17	(iii) Buy a Call;
<b>4</b> 46	(iv) Write a Put;
	(v) Sell; and
58 50 50 50 50 50 50 50 50 50 50 50 50 50	(vi) Strong Sell.
<u> </u>	4. A system for valuating natural gas futures and options contracts using
<b>_</b> 2	weather-based metrics, comprising:
3	a weather history database that stores historical weather information for a
4	least one basket of cities;
5	a weather forecast database that stores future weather information for said
6	basket of cities;
7	an inventory database that stores historical natural gas inventory
8	information for at least said basket of cities;
9	a price database that stores historical natural gas futures prices information;
10	at least one workstation that allows a user to specify inputs that affect the
11	value of the gas futures and options contracts; and
12	at least one trading server, responsive to said workstation and connected
13	to said weather history database, said weather forecast database, said inventory

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database, and said price database, that applies a pricing model to valuate gas futures and options contracts using said specified inputs from said user;

whereby the system provides assistance to said user in reaching buying/hedging decisions in trading gas futures and options contracts.

5. A computer program product comprising a computer usable medium having computer readable program code means embodied in said medium for causing an application program to execute on a computer that performs valuations of natural gas futures and options contracts using weather-based metrics, said computer readable program code means comprising:

first computer readable program code means for causing the computer to receive an input from a user indicative of the number of monthly gas contracts desired for a period of time;

second computer readable program code means for causing the computer to receive historical weather information for at least one basket of cities during said period of time;

third computer readable program code means for causing the computer to receive future weather information for said basket of cities during said period of time;

fourth computer readable program code means for causing the computer to receive historical natural gas inventory information for said basket of cities during said period of time;

fifth computer readable program code means for causing the computer to receive historical gas futures contract price information for said period of time;

sixth apply a series of regression analyses to obtain a predicted baseline value for each of the monthly gas contracts within said period using said received historical weather, future weather, historical natural gas inventory, and historical gas futures contract price data;

seventh computer readable program code means for causing the computer to receive live exchange data which indicates the current price for each of the monthly gas contracts within said period of time;

eighth computer readable program code means for causing the computer to apply a series of recommendation rules to said baseline value, using said received live exchange data; and

ninth computer readable program code means for causing the computer to provide said user with a recommendation for each of the monthly gas contracts within said period of time, wherein said recommendation reflects said user inputted desired number of contracts.

6. The computer program product of claim 5, wherein said sixth computer readable program code means comprises:

tenth computer readable program code means for causing the computer to perform a linear regression of said historical weather information and said historical natural gas inventory information; and

eleventh computer readable program code means for causing the computer to perform a multi-variate regression of said historical gas futures contract price information, said historical weather information and said historical natural gas inventory information.